

Direct Lithium Extraction (DLE) and Lithium refining.

Magnetic nano-robots capture lithium selectively, release it in controlled cycles and upgrade the feed toward battery grade.

The resource is not the constraint. Processing is. **Modular,**
containerized, deployed at the lithium source.

CONFIDENTIAL

THE BOTTLENECK

Refining, not resource.

Lithium is abundant. Turning it into battery-grade material stays concentrated, slow and capital-intensive.

> 70%

of global lithium refining sits in China
IEA critical-minerals data

455 kt

IEA lithium demand forecast for 2030
IEA lithium outlook

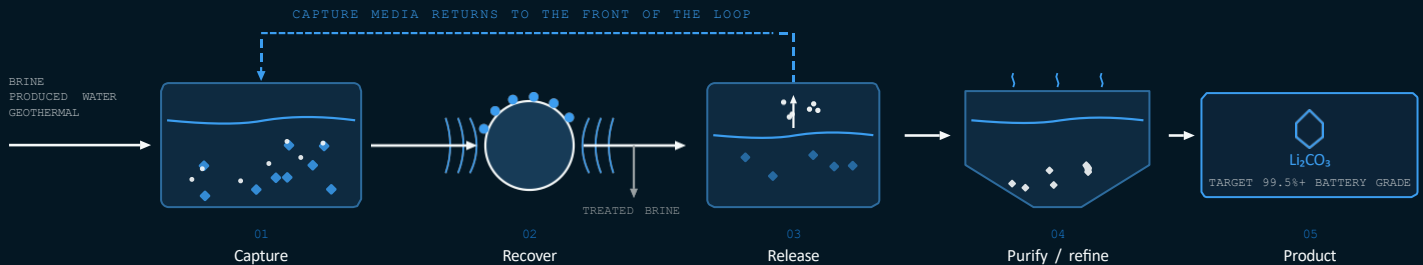
> 3x

EV battery demand growth by 2030
IEA lithium outlook

THE PLATFORM

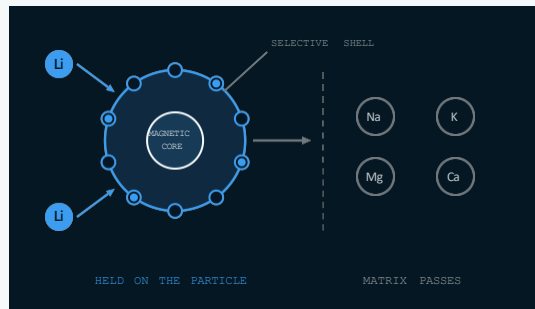
DESIGNED FOR LOW-CHEMICAL, CLOSED-LOOP OPERATION

A modular, containerized platform of functionalized magnetic nano-robots: they capture lithium selectively out of the feed, are separated magnetically, release the lithium in controlled cycles, and upgrade the stream toward battery-grade Li_2CO_3 .



SELECTIVITY

TWO HIGH-VALUE APPLICATIONS



1 DIRECT LITHIUM EXTRACTION

- Brines, produced water, geothermal and oilfield streams
- Rapid selective capture and magnetic recovery
- Modular deployment near the lithium source
- Designed to reduce reliance on evaporation ponds

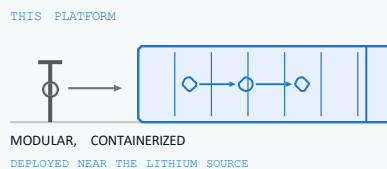
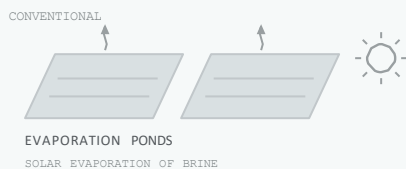
2 LITHIUM REFINING

- Upgrading of lower-grade lithium carbonate
- Target: 99.5%+ battery-grade Li_2CO_3
- Closed-loop capture and release cycles
- A modular alternative to centralized refining

WHAT IT REPLACES

DESIGNED TO REDUCE RELIANCE

WHAT REFINING IS WORTH



\$3,000/t



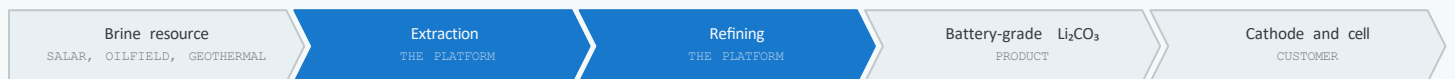
Low-grade lithium salt
COMPANY FIGURE

\$13,000/t



Battery-grade lithium salt
THE LITHIUM CHAIN

WHERE THE PLATFORM SITS



INVESTOR VALUE

BUSINESS MODEL

NEXT MILESTONES

- Extraction and refining localized to the resource
- Faster processing cycles
- Reduced logistics exposure
- Modular scale-up from pilot to industrial units

- Processing and refining as a service
- Pay-per-ton commercial model
- Lithium producers, DLE operators and refiners
- Battery supply-chain partners

- Complete feed-specific proof of concept
- Demonstrate nano-robot recovery and reuse
- Build a one-ton pilot system
- Secure an anchor industrial partner

Market context: IEA lithium outlook and critical-minerals data. Throughput, cost, recovery and product-purity figures are design targets and remain subject to feed-specific pilot validation; no commercial performance claim is implied.

From brine chemistry to battery-grade lithium, **modular,**
containerized, at the source.

Next-generation lithium processing

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